

THE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHAIL COME:

Seminis Hegetable Seeds, Inc.

DUCCUS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VALUETY PROTECTION UNDER THE LAW.

APPLICANT(S) AND THE SUCCESSORS HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SPEENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE VIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR UNCERTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE SEL, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT TO BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Wolverine'

In Costimon Merror, I have hereunto set my hand and caused the seal of the Hant Haristy Frotestion Office to be affixed at the City of Washington, D.C. this nineteenth day of April, in the year two thousand and five.

Jem Jehr

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

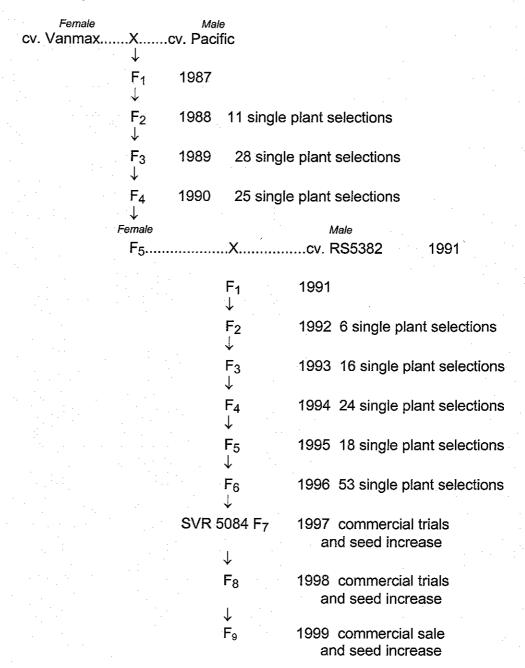
Mill Johann Secretary of Agriculture

REPRODUCE LOCALLY. Include form number and di	ate on all reproductions		The State of the S
U.S. DEPARTMENT OF AGRICULT AGRICULTURAL MARKETING SER	URESCANORAGE	The following statements are	FORM APPROVED - OMB NO. 0581-009 made in accordance with the Privacy Act of
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIE	TY PROTECTION OFFICE	1974 (5 U.S.C. 552a) and the	Paperwork Reduction Act (PRA) of 1995.
APPLICATION FOR PLANT VARIETY PROT	ECTION CERTIFICATE	Geruiicate is to be issued (7 t	er to determine if a plant variety protection J.S.C. 2421). Information is held confidention
(Instructions and information collection burder 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	statement on reverse)	until certificate is issued (7 U.	S.C. 2426).
•	•	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Seminis Vegetable Seeds, Inc.		Bob sac	
s.		PSR 5084	Wolverine
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code	, and Country)	6. TELEPHONE (include area code)	
	_	1.	FOR OFFICIAL USE ONLY PVPO NUMBER
Hondland Of Occor	> Camino del sol	(530) 666-0931	200000075
Ox ha	rd, CA 93030-796	6. FAX (include area code)	FIDATE
•	12020-196	(530) 666-6791	Dec. 6, 1999
			IN
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botani	cal)	G FILING AND EXAMINATION FEE:
Lactuca Sativa L.	Asteraceae		E 245000
. CROP KIND NAME (Common name)			E DATE
Lettuce			1 Dec. 6, 1999
. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF C	RGANIZATION (corporation, partnershi	p, association, etc.) (Common name)	C CERTIFICATION FEE:
Corporation		, and the second second	t 432. <u>∞</u>
. IF INCORPORATED, GIVE STATE OF INCORPORATION California		12. DATE OF INCORPORATION	E DATE
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO	7	1962	3/31/2005
Woodland CA 95616	45004-	ands	16. FAX (include area code) 011 31317 45021
c. Z Exhibit C. Objective Description of the Variety	450217		-
d. Exhibit D. Additional Description of the Variety (Optional)			
e. Exhibit £. Statement of the Basis of the Applicant's Ownersh			
 Youther Sample (2,500 vieble untreated seeds or, for tuber p Filling and Examination Fee (\$2,450), made payable to "Treas 	ropagated varieties verification that tiss	ue culture will be deposited and mainta	ined in an approved public repository)
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE:S			
TES (if yes, answer nems to and 19 below)	NO (If "no," go to	item 20)	ਰਗ ਰਤਿ(ਬ) ਹਾਂ the Plant Vanety Protection Acti
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE & GENERATIONS?	IMITED AS TO NUMBER OF 19.	F "YES" TO ITEM 18, WHICH CLASSE	S OF PRODUCTION BEYOND BREEDER SEED?
☐ YES X NO		FOUNDATION REGISTE	
HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY B YES III "yes," give names of countries and dates!	EEN RELEASED, USED, OFFERED FOR	SALE, OR MARKETED IN THE U.S. OR	OTHER COUNTRIES?
USA Sout 1999	□ NO		4
3201 1121	essell by the second		
The applicant(s) declare that a viable sample of basic seed of the variet applicable, or for a tuber propagated variety a tissue culture will be dep	y will be rurnished with application and posited in a public repository and maint:	will be replenished upon request in acc sined for the duration of the certificate.	ordance with such regulations as may be
The undersigned applicant(s) is(are) the owner(s) of this sexually reprod Section 42, and is entitled to protection under the provisions of Section	uced or tuber propagated plant variety,	and believe(s) that the variety is new,	distinct, uniform, and stable as required in
Applicant(s) is(are) informed that false representation herein can jeoparc	42 of the result variety Protection Act.		
NATURE OF APPLICANT (Owner(s))		OF APPLICANT (Owner(s))	
Allre		- ,	
E (Please print or type)	NAME (Please	print or typei	
T. Kramor	·		
ACITY OR TITLE DA	TE CAPACITY O	R TITLE	DATE
Director	2-3-99	•	
470 (03-96) (Previous editions are to be destroyed)		See reverse for instructions and	information collection burden statement)

200000075

Exhibit 16A. Origin and Breeding History of Lettuce cv. Wolverine (SVR 5084)

Pedigree of cv. Wolverine



Wolverine (SVR 5084) originated in 1987 with the cross cv. Vanmax by cv. Pacific. Single plant selections were made in subsequent years in the areas of intended commercialization. An F_5 selection of this cross was then crossed in 1991 to RS 5382. By F_7 a group of 12 families was judged uniform and bulked for trialing and seed increase. An F_8 mass was trialed during 1987 and an increase of F_9 seed was produced in the San Joaquin Valley of California the same year.

Exhibit 16A (cont.) Lettuce cv. Wolverine (SVR 5084)

The initial breeding work (up to the final F₄) was carried out at the former Royal Sluis Company's Research Station at San Juan Bautista, California by Mr. Dean Gregg and Mr. Keith Trammell. When Royal Sluis Company was purchased by Petoseed Company in October 1994, further breeding and trialing was carried out by Dr. William Waycott at the Petoseed Company's Research Station at Arroyo Grande, California. Petoseed Company was purchased by Seminis Vegetable Seeds, Inc. in 1995 and this breeding work continued at the Arroyo Grande location until the present. Field trials were conducted in production areas throughout the Desert Southwest of North America during 1997 and 1998.

The breeding method employed was pedigree selection, using both single plant selection and mass selection practices. The selection criterion for Wolverine was to breed a cultivar with increase uniformity and improved heading ability when compared to the most similar varieties.

In trials of cv. Wolverine during the last seven years covering generations F_7 to F_{14} , we have seen neither genetic variants nor off-types in over 25,000 plants, indicating that this variety is genetically uniform and stable. During abnormally cold weather, such as what was experienced during the winter of 1998 - 1999, in a some instances plants of Wolverine exhibited a phenomenon called spiraled head formation, where instead of forming a spherical head, some plant heads were elliptical or cylindrical in shape with the upper end somewhat pointed. The phenomenon is rare and was noted in some other varieties grown during the same period.

2000000075

Exhibit 16B. Novelty Statement of Lettuce cv. Wolverine (SVR 5084)

Cv Wolverine is described as a vigorous crisphead lettuce cultivar adapted to the Desert Southwest area of North America. Its optimum sowing period is throughout November in Western Arizona and Southern California, and in late November/early December in the San Joaquin Valley of California. Cv. Wolverine has downy mildew resistance to California Pathotype III. Cv. Wolverine was selected for improved uniformity and performance compared to the currently commercial cultivars grown during these production periods..

Phenotypically, cv. Wolverine is distinct from its most similar commercial cultivar cv. Red Coach 74 (Table 1). Cv. Wolverine is slightly smaller than cv. Red Coach 74 (17.08cm vs. 17.98cm), slightly darker in color, and more uniform. In replicated field trials, cv Wolverine consistently exhibited more plants with round, firm heads, while cv Red Coach 74 exhibited less uniformity of heading, with several plants having soft or puffy heads.

Cv. Wolverine is distinguishable from cv. Jackal, the other cultivar with the same sowing dates submitted by Seminis Vegetable Seeds, Inc. for PVP. Cv. Wolverine is slightly larger than cv Jackal (17.08cm vs. 16.05cm), darker green, has a smoother leaf surface, i.e. less undulation and savoy (blistering), and is susceptible to lettuce mosaic virus(suscept. vs. resistant).

The data presented here are statistically different at the 95% confidence level, exhibiting a range of means for plant diameter from 45.99 to 46.56 for cv. Wolverine and from 49.90 to 50.70 for cv. Red Coach 74, of means for head diameter from 16.92 to 17.23 for cv. Wolverine and from 17.72 to 18.23 for cv. Red Coach 74, and of means for head weight from 808.79 to 810.71 for cv. Wolverine and from 850.16 to 852.34 for cv. Red Coach 74, using the 0.95 probability of generating confidence intervals (CI) that contains the means.

Table 1. Evaluation of Wolverine (SVR 5084) and Jackal (SVR 0874) and the most similar cultivar, Red Coach 74, for several important characters.

				Downy	affina				
Trial No	Cultivar	Rep No.	. Colorª			Plant Diam. ^d	Head Diamtr [®]	Head Weight ^f	No. of Days
Trial 1: Evaluated: 2 Mar 99	Wolverine: Rep. 2	Rep. 1	146A 146A	==	Suscept. Suscept.	45.9±1.3 46.8±1.1	17.8±0.7 16.4±0.6	811±4.0 813±4.5	68 70
Yuma, AZ		Average	e: 146A	=	Suscept.	46.4±1.2	17.1±0.7	812±4.3	69
	Jackal:	Rep. 1 Rep. 2	146A 146A	==	Resist. Resist.	46.0±1.6 46.8±1.2	15.9±0.7 15.6±0.8	713±4.1 700±4.6	64 63
		Average:	e: 146A	■ -	Resist.	46.4±1.4	15.8±0.8	707±4.4	64
	Red Coach 74:	Rep. 1 Rep. 2	146A 146A	· = =	Suscept. Suscept.	50.9±2.1 49.8±1.3	17.7±1.6 18.6±0.8	847±4.8 853±5.0	63 63
		Average:	e: 146A		Suscept.	50.4±1.7	18.2±1.2	850±4.9	63
Trial 2: Evaluated	Wolverine:	Rep. 1 Rep. 2	146A 146A	==	Suscept. Suscept.	45.7±1.2 46.7±1.5	16.9±0.8 17.2±0.7	809±4.1 806±4.6	69 89
Yuma, AZ		Average:	e: 146A	=	Suscept.	46.2±1.4	17.1±0.8	808±4.4	69
	Jackal:	Rep. 1 Rep. 2	146A 146A	==	Resist. Resist.	45.8±1.0 45.9±1.3	16.1±0.7 16.6±0.8	710±4.0 702±3.9	63 65
	:	Average:	3: 146A	=	Resist.	45.9±1.2	16.4±0.8	706±4.0	64
	Red Coach 74:	Rep. 1 Rep. 2	146A 146A	==	Suscept. Suscept.	50.6±1.6 49.9±2.1	17.4±0.6 18.2±1.5	851±5.0 854±4.7	62 64
		Average:	146A	=	Suscept.	50.3±1.9	17.8±1.1r	853±4.9	63
		•	:				٠		

Range of variation among means of statistically significant differences at the 95% level using the confidence interval [Cl = mean ± (SDXSE)].

cv. Wolverine	45.99 to 46.56	45.99 to 46.56 16.92 to 17.23	808.79 to 810.71
cv. Jackal	45.84 to 46.41	45.84 to 46.41 15.95 to 16.15	701.88 to 710.62
cv. Red Coach 74	49,90 to 50.70	49.90 to 50.70 17.72 to 18.23	850 46 to 850 34

^aColor evaluation was done using the Royal Horticultural Society color chart, U.K. ^bDowny mildew survey reported as resistance to California Pathotypes I through V, using two replications each having 15 seedlings, grown in laboratory screens.

^cLettuce mosaic virus survey using two replications each having 40 seedlings, grown in laboratory screens.

 d Mean plant diameter using two sowing dates of 20 plants per replication in cm \pm standard deviation. e Mean head diameter using two sowing dates of 20 plants per replication in cm \pm standard deviation.

 $^{\rm f}$ Mean head weight using two sowing dates of 20 plants per replication in grams \pm standard deviation. $^{\rm g}$ Mean number of days until stem reaches 15 cm using two replications of 20 plants each.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION

OBJECTIVE DESCRIPTION OF VARIETY LETTUCE Lactuca sativa

NAME OF APPLICANT (5)			FOR OFF	ICIAL USE ONLY
Seminis Vegetable Seed	ds. Inc.		PVFO NUMBER	^ ^ 7 E
37437 State Hwy 16	s., enj, state, and zir code		VARIETY NAME	<u>U U / 5</u>
Woodland CA 95695			12)0171	FRINE
			EXPERIMENTAL D	ESIGNATION
21			YSK5	084
Place numbers in the boxes for the char- spaced plants. Royal Horticultural Soci	acters which best describe the ety or any recognized color :	is variety. Measured data should standard may be used to determine	be the mean of an appropriative plant colors.	e number (at least 10) o
he location of the test area is:		Color System Use	d:	
. PLANT TYPE: (See list of sugge	ested check varieties page 4.)	· · · · · · · · · · · · · · · · · · ·		
01=Cutting/Lea 02=Butterhead 03=Bibb 04=Cos or Rom	06=Vanguard (07=Imperial G	Group 10=Latin	·	
SEED: COLOR 1=White (Silver Gray) 2=Black (Gray Brown	1 Light Re	quired 1 1=S	AT DORMANCY	
3=Brown (Amber) COTYLEDON TO FOURTH LEAF S	2= Light No		ot Susceptible	
· ·	grown und	color photograph or photocopy o ler optimal conditions,	f the fourth leaf from 20 day	old seedling
SHAPE OF COTYLEDO	NS: 1=Broad	2=Intermediate 3=Spat	tulate	
				
A SHAPE OF FOURTH LE				
1	2 3	4	5 6	
LENGTH/WIOTH INDEX	OF FOURTH LEAF: L/W	× 10		
APICAL MARGIN: BASAL MARGIN:	1=Entire 2=Crean#te/Gnawed 3=Finely Dentate	4=Moderately Dentate 5=Coarsely Dentate 6=Incised	7=Lobed 8=OTHER (specify)	
2 UNDULATION:	1=Flat	2=Slight	3=Medium	4=Marked
3 GREEN COLOR:	1=Yellow Green 2=Light Green	3=Medium Green 4=Dark Green	5=81ue Green 6=Silver Green	7=Gray Green
ANTHOCYANIN:				
DISTRIBUTION:	1≃Absent 2=Margin Only	3=Spotted 4=Throughout	5=OTHER (specify)	.a
CONCENTRATION:	1=Light	2=Moderate .	3=Intense	
ROLLING:	1=Absent	2-Présent		· · · · · · · · · · · · · · · · · · ·
CUPPING:	1~Uncupped	2=Slight	3=Markedly	<u> </u>
T BEELEVING	1=None	•	2 1	
REFLEXING:	. None	2=Apical Margin	3=Lateral Margins	7

				2000	A de de de
4. M	ATUR	E-LEAVES (observe harvest-matu	re outer leaves):	2000	00075
NO	TE: P	rovide color photo of harvest-ma MARGIN:	iture leaves which accurately shows color a	and mergin characteristics.	
	2	INCISION DEPTH:	1=Absent/Shallow (Dark Green Boston) he margin)	2=Moderate (Vanguard)	3=Deep (Great Lakes 659)
	4	INDENTATION: (finest divisions of the margin	1=Entire (Dark Green Boston) 2=Shallowly Dentate (Great Lakes 65)	3-Deeply Dentate (Great Lakes 659) 4-Crenate (Vanguard)	5-OTHER (specify)
	2	UNDULATION OF THE APICAL MARGIN:	1=Absent/Slight (Dark Green Boston)	2-Moderate (Vanguard)	3-Strong (Great Lakes 659)
	4	GREEN COLOR:	1-Very Light Green (Bibb) 2-Light Green (Minetto)	3-Medium Green (Great Lakes) 4-Dark Green (Vanguard)	5-Very Dark Green 6-OTHER
		ANTHOCYANIN (grown at o	r below 10 C):		
		DISTRIBUTION:	1=Absent 2=Margin Only (Big Boston)	3-Spotted (Calif. Cream Butter) 4-Throughout (Prize Head)	5-OTHER (*Pecify)
	=	CONCENTRATION:	1=Light (Iceberg)	2≃Moderate (Prize Head)	3=Intense (Ruby)
	3	SIZE:	1=Small	2~Medium	3=Large
		GLOSSINESS:	1=Dull (Vanguard)	2≃Moderate (Salinas)	3-Glossy (Great Lakes)
	2	BLISTERING:	1=Absent/Slight (Salinas)	2=Moderate (Vanguard)	3=Strong (Prize Head)
	2	LEAF THICKNESS:	1=Thin	2=Intermediate	3=Thick
		TRICHOMES:	1=Absent (smooth)	2=Present (spiny)	
S. PLA	NT (at		son variety appropriate (or this type.):		
A	-6	SPREAD OF FRAME LEAVES:	[5] 'VCD (00C	H74 (enecity comparison units	
		HEAD DIAMETER (market tri		[[] (specify comparison variet	У)
	17	cm This Variety	18 cm RED COA	CH 74 (specify comparison variet	y)
	3		1=Flattened 2=Slightly Flattened	3=Spherical 4=Elongate	5=Non-Heading 6=OTHER
	3	HEAD SIZE CLASS:	1*Small	2=Medium	3=Large
2	4	HEAD COUNT PER CARTON			
है।	0	g This Variety	1815121. RED COACH	174 (specify comparison variety	
	4	DEAD FIDAMERS.		3=Firm 4=Very Firm	
. BUT	T (bott	om of market-trimmed head):		, , , , , , , , , , , , , , , , , , ,	_
	3	SHAPE: 1	=Slightly Concave	2×Flat	3=Rounded
		MIDRIB: 1	=Flattened (Salinas)	2=Moderately Raised	3=Prominently Raised (Great Lakes 659)
CORE	(stem	of market-trimmed head);			
3	8	mm Diameter at base of head			<u> </u>
4	5	Ratio of head diameter/core diam		·	
3	6	Core height from base of head to mm. This Variety	35 mm KED COACE	174- (specify comparison variety,	
BOLT		, i	to germinate. This can and of	le date seed first receives adequate mois ten does equal the planting date.	ture
5	1 1 1	Number of days from First Water This Variety	Oate to seed stalk emergence (summer co	onditions): 4 (specify comparison variety,	
	3			=Medium €	s=Very Rapid

Height of mature seed stalk:

cm This Variety

122 cm RED COACH 74

(specify comparison variety)

	cm This Variety	ridest point):	RED COACH 74 (specify comp	
417		15181°m-	(FD CUACH +4 (specify compo	arison variety)
[[BOLTER LEAVES:	1=Straight	2=Curved	
2	MARGIN:	1 = Entire	2=Dentate	
3	COLOR:	>- Light Green	2=Medium Green	3=Oark Green
I	BOLTER HABIT: TERMINAL INFLORESCENCE:	1=Absent	2×Present	
2	LATERAL SHOOTS:	I = Absent	2=Present	
1	8ASAL SIDE SHOOTS	: 1=Absent	2=Present	
	((earliness of harvest-mature h Complete this section for at lea	ist one season.		
SEAS	SON Applic.1/ #of day	s Check 1 #of days	CHECK VARI	ETY 2/
Spring	0 [14	17	RED GOACH 74	
Summ	ner			
Fall				
1	.		į	
	date(s), and location(s):			
live planting	date(s), and location(s): SOUTHERN CALL CENTRAL CAL	FORNIA WE	STERN ARIZONA 25 OCT	OBER TO I DECEM 5 DECEMBER
Sive planting of Spring Summer	date(s), and location(s): SOUTHERN CALL CENTRAL CALL er			OBER TO I DECEM 5 DECEMBER
Spring Spring Summe Fall Winter	date(s), and location(s): SOUTHERN CALL CENTRAL CAL er water date to harvest.		STERN ARIZONA, 25 OCT. TOAQUIN VALLEY); I TO 29	OBER TO I DECEM 5 DECEMBER
Spring Summe Fall Winter 1/ First v	date(s), and location(s): SOUTHERN CALL CENTRAL CAL er water date to harvest.	2∕Fill in check vari	ety name on the appropriate line,	OBER TO I DECEM 5 DECEMBER Adapted 2=Adapted)
Spring Summe Fall Winter 1/ First v	date(s), and location(s): SOUTHERN CALL CENTRAL CALL er water date to harvest.	2∕Fill in check vari	iety name on the appropriate line. ren adapted): {0×Not tested 1×Not	
Spring Summe Fall Winter 1/ First v ADAPTATIO	date(s), and location(s): SOUTHEN CALL CENTRAL CAL er water date to harvest. ON: PRIMARY REGIONS OF ADA Southwest (Calif., Ariz. desert) Northcentral	2/Fill in check vari	ety name on the appropriate line. ren adapted): {0=Not tested 1=Not st	
Spring Summe Fall Winter 1/ First v ADAPTATIO	date(s), and location(s): SOUTHERN CALL CENTRAL CALL er water date to harvest. DN: PRIMARY REGIONS OF ADA Southwest (Calif., Ariz. desert)	2/Fill in check vari PTION (tested and prov	ety name on the appropriate line. ren adapted): (0=Not tested 1=Not St O Northeast	Adapted 2=Adapted)
Spring Summe Fall Winter 1/ First v ADAPTATIO	date(s), and location(s): SOUTHEN CALL CENTRAL CAL er water date to harvest. DN: PRIMARY REGIONS OF ADA Southwest (Calif., Ariz, desert) Northcentral EASON:	2/Fill in check vari PTION (tested and prov	iety name on the appropriate line. ren adapted): {0=Not tested 1=Not st	Adapted 2=Adapted)
Spring Spring Summe Fall Winter 1/ First v ADAPTATIC P	date(s), and location(s): SOUTHERN CALL CENTRAL CALL er water date to harvest. DN: PRIMARY REGIONS OF ADA Southwest (Calif., Ariz. desert) Northcentral EASON: Spring (area UMA TW 500 Summer (area	2/Fill in check vari PTION (tested and prov	ren adapted): {0=Not tested 1=Not tested 0 Northeast 0 THER	Adapted 2=Adapted)

· ·			20000075 🗓
11. DISEASES AF	ND STRESS REACTIONS (0=Not tester	d; 1=Susceptible; 2-	-Intermediate: 3-Resistant: 4-Highly resistant: 5-Tolerant):
	VIRUS	•	FUNGAL/BACTERIAL
	Big Vein		Corky Roat Rat (Pythium Roat Rat)
	Lettuce Mosaic		3 Downy Mildew (Races <u>CA TIL</u>)
·	O Cucumber Masaic		Powdery Mildew
	Broad Bean Wilt		O Scleratinia Rat
	O Turnip Mossic		Bacterial Soft Rot (Pseudomonas spp. & others)
	3eet Western Yellows		Botrytis (Gray Mold)
	D Lett. Infectious Yellows		отнея
	Other Virus	•	
•		· · ·	
	INSECTS		PHYSIOLOGICAL/STRESS
	Cabbage Loopers		Z Tipbum 0 Salt
	Root Aphids		Heat D Brown Rib (Rib Discoloration, Rib Blight)
	Green Peach Aphid	.•	Orought . OTHER
	Other Insect		3 cold
		POST HARVES	ST
	O Plak Rib	-	O Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)
÷	Russet Spotting		D Brown Stain
	Rusty Brown Discoloration		
12. BIOCHEMICAL	OR ELECTROPHORETIC MARKERS:		
13. COMMENTS:			
	· · · · · · · · · · · · · · · · · · ·		

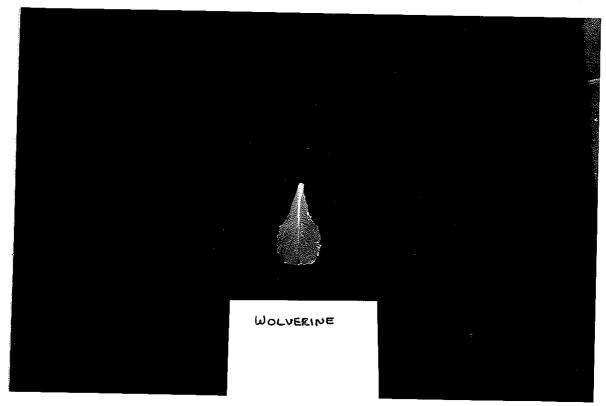
SUGGESTED CHECK VARIETIES

TYPE

- 1) CUTTING/LEAF
- BUTTERHEAD
- 3) 8188
- 31 BIBB
 41 COS, OR ROMAINE
 51 GREAT LAKES GROUP
 61 VANGUARD GROUP
 71 IMPERIAL GROUP
 81 EASTERN GROUP
 91 STEM
 101 LATIN

-CHECK VARIETY

SALAD BOWL DARK GREEN BOSTON 8188 PARRIS ISLANO GREAT LAKES 659-700 VANGUARO VIVA ITHACA CELTUCE MATCHLESS



Fourth Leaf from 20-Day old Seedlings, Wolverine (PSR 5084)



Harvest-Mature Leaf, Wolverine (PSR 5084)

REPRODUCE LOCALLY: Include form number and date on all reproductions.		
U.S. DEPARTMENT OF MONICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE		ede in accordance with the Pilvacy: Ac sperwork Reduction Act (PRA) of 1995
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S.	to determine if a plant variety protect C.C. 2421). Information is held confiden C. 2426).
Seminis Vegetable Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBE PSR 5084	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 37437 State Hwy 16 Woodland CA 95695	TELEPHONE Grackete area code/ PVPO NUMBER 2000000000000000000000000000000000	6. FAX (include area code)
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate by	ock. If no, please explain.	YES NO
O. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s):		YES NO
If no, give name of country O. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of co	n de la companya de l	YES NO
O. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of co	in the control of the	YES NO
O. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of co	in the control of the	YES NO
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If no, give name of country 10. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of country the original breeder(s) U.S. based company? If no, give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company? If no give name of country the original breeder(s) U.S. based company?	untry - Commission of the com	YES NO
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If no, give name of country 10. Is the applicant the original breeder? If no, please answer the following: a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of country and it is the original breeder(s) U.S. based company? If no, give name of country. 11. Additional explantion on ownership (If needed, use reverse for extra space): 12. Additional explantion can be afforded only to owners (not licensees) who meet one of a country which affords similar protection to nationals of the U.S. for the same of a country which affords similar protection to nationals of a country which a rights to the variety are owned by the company which employed the original nationals of a UPOV member country, or owned by nationals of a country which a	of the following criteria: a U.S. national, national of a genus and species.	YES NO YES NO UPOV member country, or national
a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of co b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of count 11. Additional explantion on ownership (If needed, use reverse for extra space): LEASE NOTE: ant variety protection can be afforded only to owners (not licensees) who meet one If the rights to the variety are owned by the original breeder, that person must be	of the following criteria: a U.S. national, national of a genus and species. I breeder(s), the company must fords similar protection to national idea and the applicant must mee	YES NO YES NO UPOV member country, or national to be U.S. based, owned by onals of the U.S. for the same

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